Weed Technology, Volume 13
Author Index

Abbas, H. K., 257
Ackley, J. A., 151
Akobundu, I. O., 201
Al-Jamali, A. F., 457
Al-Khatib, K., 264, 489, 510, 753
Anderson, R. L., 314
Andreasen, C., 554
Asíns, M. J., 209
Askew, S. D., 276, 308, 594
Ateh, C. M., 394
Ayeni, A. O., 201

Bach, D. J., 104, 221
Baker, R. D., 378
Baig, M. N., 777
Bailey, W. A., 450, 771
Baldwin, F. L., 390
Baldwin, J. L., 691
Ball, D. A., 77
Baltensperger, D. D., 120
Bariuan, J. V, 112
Barnes, G. F., 183
Baumgartner, J. R., 489, 510
Beckie, H. J., 612, 626, 655
Bell, G. E., 829
Bellinder, R. B., 244
Bendixen, W. E., 399
Bennett, A. C., 791
Bevard, D. S., 216
Bhowmik, P. C., 37, 504
Blackshaw, R. E., 347
Boerboom, C. M., 636
Boland, G. J., 675
Boswell, A. L., 548
Bouw, W. J., 303
Brennan, J. S., 233
Bridges, D. C., 561
Briggs, J. A., 157
Brinkman, B. A., 71
Brinkman, M. A., 835
Brown, J., 239
Bryant, K. J., 586

Canevari, W. M., 399
Carbonell, E. A., 209
Carrato, J. T., 663
Carretero, J. L., 209
Carrow, R. N., 706
Center, T. D., 59
Chandler, J. M., 12, 19, 367, 525
Chandler, K., 283
Chandran, R. S., 576
Chang, F-Y., 655
Chikoye, D., 201
Choate, J. H., 139
Christoffers, M. J., 647
Clay, S. A., 835
Coates, G. E., 385, 747
Coble, H. D., 494
Colquhoun, J. B., 244
Colvin, D. L., 378
Corbin, F. T., 515, 536
Corkern, C. B., 821
Cranmer, J. R., 594
Culpepper, A. S., 324, 411, 515, 536
Curran, W. S., 520
Currie, R. S., 489, 510
Curtis, J. M., 139

Danneberger, T. K., 829
Daou, H., 65
Darwent, A. L., 777
Daugovish, O., 120
Davis, J. B., 239
De Barreda, D. G., 209
Del Busto, A., 209
Delaney, D. P., 6
Derr, J. F., 685
Dillon, T. L., 390
Durgan, B. R., 43

Earnest, L. D., 586
Eberlein, C. V., 71
Elliott, M. L., 59
English, B. C., 30
Enloe, S. F., 731
Esau, R., 548
Etheridge, R. E., 765

Fausey, J. C., 783
Fischer, D. W., 144
Forcella, F., 43
Foy, C. L., 176
Franey, R. J., 825
Frasier, A. L., 54

Geier, P. W., 404
Ghosheh, H. Z., 457
Gonzini, L. C., 354
Gossett, B. J., 165
Grant, D. L., 791
Green, J. M., 737, 840
Griffin, J. L., 127, 821
Guttieri, M. J., 71

Hager, A. G., 320
Hameed, K. M., 457
Hamill, A. S., 283
Hancock, H. G., 530
Hansen, L., 554
Harker, K. N., 347, 777
Harrison, H. F., 726
Hart, S. E., 354, 471, 825
Hartwig, N. L., 433, 520
Harvey, R. G., 104, 144, 221, 394
Hatch, S. L., 571
Hatzios, K. K., 151, 685, 759
Hayes, R. M., 30, 561
Hendrickson, P. E., 461
Higgins, J. M., 378
Hoagland, R. E., 296
Holen, D. L., 581
Holloway, J. C., Jr., 48, 271

Inderjit, 176
Itoh, K., 680

Johnson, B. J., 706
Johnson, W. G., 233, 478
Jones, J. D., Jr., 290
Jordan, D. L., 450, 515, 536, 771, 821
Jurik, T. W., 741

Kachman, S. D., 83
Kapusta, G., 691
Kegode, G. O., 43
Kells, J. J., 542, 713, 807, 814
Kelly, S. T., 385, 747
Kelner, D. J., 612
Kendig, J. A., 100
Ketchersid, M. L., 19
Khan, R. A., 1
Kirkwyland, J. J., 244
Knezevic, S. Z., 283
Krausz, R. F., 691
Kremer, R. J., 835
Kushwaha, S., 504

Langston, V. B., 276, 450, 771
Lanini, W. T., 399
Laroche, F., 59
Légère, A., 612, 626
Leidy, R. B., 799
Li, X., 347
Li, Z., 530
Linker, H. M., 421
Lowe, D. B., 132
Luthe, D. S., 747
Lyon, D. J., 120

Mahnken, G. E., 799
Mallory-Smith, C. A., 461, 662
Maloney, T. S., 144
Mancino, C. F., 1
Manley, B. S., 697, 759
Maricic, A. A., 1
Martin, F. G., 172, 571
Martin, N. R., Jr., 139
Masabni, J. G., 599
Maschoff, J., 691
Massey, R. E., 478
Matthews, J. L., 691
Matysiak, R., 94, 334
McCarty, L. B., 378
McCauley, G. N., 12, 19
McKinley, T. L., 30
Meers, S., 612
Mesbah, A. O., 374
Messersmith, D. T., 520
Mikkelsen, R. L., 421
Miller, D. K., 127
Miller, S. D., 374, 731
Mislevy, P., 172, 571

Mitich, L. W., 191, 429, 665, 843
Mitra, S., 37, 504
Molin, W. T., 1
Monks, C. D., 6
Moreno, J. E., 378
Moyer, J. R., 548
Mueller, T. C., 341, 561, 765
Mueller-Warrant, G. W., 439
Mullahey, J., 172
Murdoch, C. L., 169

Nalewaja, J. D., 94, 334, 643
Neumann, S., 675
Niekamp, J. W., 233
Nishimoto, R. K., 169
Nissen, S. J., 731
Noldin, J. A., 12, 19
Norwsorthy, J. K., 296, 466

O'Donovan, J. T., 347, 777
Odorizzi, E., 829
Ogg, A. G., Jr., 77
Ohmes, G. A., Jr., 100
Oliver, L. R., 466
Oplinger, E. S., 144
Orloff, S. B., 399
Orson, J. H., 607, 653
Orzolek, M. D., 520
O'Sullivan, J., 303

Palmer, E. W., 48, 271
Pantone, D. J., 257
Patterson, M. G., 6
Paul, R. N., 257
Penner, D., 54, 320, 713, 783, 814
Peterson, D., 264, 632
Peterson, J. K., 726
Pierce, G. L., 421
Price, W. J., 88
Prostko, E. P., 367, 525
Purcell, L. C., 466

Rabaey, T. L, 104, 221
Rao, A. S., 361
Rayachhetry, M. B., 59
Reddy, K. N., 112, 361
Reicher, Z. J., 253
Renner, K. A., 320, 783
Retzinger, E. J., Jr., 606
Reynolds, D. B., 821
Richard, E. P., Jr., 127
Richburg, J. S., III, 484
Riley, M. B., 157
Roberts, R. K., 30
Rosales-Robles, E., 367, 525
Roth, G. W., 520
Rutledge, J. S., 296

Salihu, S., 576, 685
Schabenberger, O., 320, 542
Schmierer, J. L., 399
Seefeldt, S. S., 183
Semach, G., 347
Senseman, S. A., 367, 525
Shaner, D. L., 697
Shaw, D. R., 48, 271, 341, 791
Sheets, T. J., 799
Sheldon, Y. S., 515, 536
Shilling, D. G., 571
Shinn, S. L., 88
Sikkema, P. H., 283
Simmons, F. W., 471
Singh, B. K., 697
Singh, M., 576
Skroch, W. A., 799
Smeda, R. J., 233
Snipes, C. E., 561
Sprague, C. L., 54, 713, 814
Stahlman, P. W., 404, 731
Stevenson, F. C., 655
Stivers, J. I., 581
Stougaard, R. N., 227, 581
Streibig, J. C., 554
Swann, C. W., 450, 771
Swanton, C. J., 283

Talbert, R. E., 65, 296
Tamhane, A., 753
Tardif, F. J., 283
Tharp, B. E., 542, 807
Thill, D. C., 88, 239
Thomas, A. G., 612, 626
Thomas, R. J., 303
Throssell, C. S., 253
Toler, J. E., 165
Tonks, D. J., 71
Turk, M. A., 457

Uchino, A., 680
Udensi, U. E., 201
Van Acker, R. C., 612
Vangessel, M. J., 104, 425
Van Wychen, L. R., 104, 221
Vargas, R. N., 399
Vidrine, P. R., 821

Wait, J. D., 478
Walker, R. H., 290, 530
Walls, F. R., Jr., 484
Wang, G.-X., 680
Warren, L. S., Jr., 494
Warren, S. L., 421
Watanabe, H., 680
Watschke, T. L., 216
Wax, L. M., 354
Webster, E. P., 390, 586
Wehtje, G., 139, 290, 530
Weinbrecht, J. S., 378
Weisenberger, D. V., 253
Wells, L. W., 139
Westra, P., 731
Whitwell, T., 132, 157
Wilcut, J. W., 6, 276, 308, 450, 484, 594, 771
Williams, B. J., 821
Willian, W. T., 561
Wills, G. D., 112
Wilson, H. P., 151, 697, 759
Wilson, R. G., 25, 83
Witt, W. W., 341
Womac, A. R., 765

York, A. C., 324, 411, 515, 536
Young. B. G., 471
Young, F. L., 77, 183

Zandstra, B. H., 599
Zhang, S., 741
Zimdahl, R. L., 847

Weed Technology, Volume 13
Subject Index

Absorption, 290
ABUTH, 104, 233, 354, 394, 471, 478, 484, 504, 542, 691, 713, 741, 783, 807, 814
Abutilon theophrasti, 691, 807
Abutilon theophrasti Medic., 741
Abutilon theophrasti Medicus, 104, 471, 504, 542, 691, 713, 814
Abutilon theophrasti Medik., 233, 354, 394, 478, 783
Acetochlor, 341, 404, 713
Acetolactate synthase, 489, 680
Acetolactate synthase (ALS) inhibitors, 612
Acetyl-CoA carboxylase (ACCase) inhibitors, 612, 626
Acetyl-coenzyme A carboxylase, 515
Acifluorfen, 165, 276, 450, 586, 594, 771
ACNHI, 139
AC 263,222, 54, 484
Additive(s), 361, 581
Adjuvant(s), 334, 461, 581, 737, 840
Adjuvant blend, 536
Adsorption, 561
Aegilops cylindrica Host, 77, 120, 183, 374
AGECY, 77, 120, 183, 374
Agropyron intermedium (Host) P. Beauv., 83
Agropyron smithii Rydb., 83
Agrostis stolonifera Huds., 216
Agrostis stolonifera L., 829
AGRRE, 37, 54
Ajuga, 685
Ajuga reptans L. 'Alba', 685
Alachlor, 341
Alfalfa, 399, 548, 581
Allelopathy, 176
ALOMY, 607
ALS inhibitor resistance, 697, 759
ALS inhibitors, 494
Alternative weed control, 139, 554
AMACH, 165, 276, 308, 324, 411, 471, 697, 759
AMAPA, 165, 632
AMAPO, 283
Amaranthus hybridus L., 165, 276, 308, 324, 411, 471, 697, 759
Amaranthus palmeri S. Wats, 165, 632
Amaranthus powellii S. Wats., 283
Amaranthus retroflexus, 807
Amaranthus retroflexus L., 71, 283, 404, 484, 713, 783
Amaranthus rudis Sauer, 233, 471, 478, 632, 741
AMARE, 71, 283, 404, 484, 713, 783, 807
AMATA, 233, 354, 471, 478, 632, 741
AMBEL, 104, 233, 276, 283, 308, 320, 324, 471, 542, 691, 713, 783
Ambrosia artemisiifolia, 691
Ambrosia artemisiifolia L., 104, 233, 276, 283, 308, 320, 324, 471, 542, 691, 713, 83
Ambrosia trifida L., 825
AMBTR, 825
Ametryn, 324
Amine salt of 2,4D, 290
Amine salt of 2,4DB, 290
2-amino-4-(hydroxymethylphosphinyl)butanoic acid, 691, 765, 777
4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4*H*)-one, 71, 127, 169, 233, 271, 276, 354, 425, 586, 599, 713, 791
2-amino-4-(hydroxymethylphosphinyl)butanoic acid, 19, 104, 264, 324, 542, 807
4-amino-3,5,6-trichloro-2-pyridinecarboxylic acid, 731
Ammonium salt, 54
Ammonium salt of 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid, 361
Ammonium sulfate, 334, 777
Andorra juniper, 799
Annual bluegrass, 554, 747, 829
Antagonism, 48, 320, 361, 536, 576, 821
APCCA, 425
Apocynum cannabinum L., 425
Apomixis, 257
Application timing, 227
Arachis hypogaea L. 'Florunner', 139
Arachis hypogaea L. 'NC 7', 450, 594, 771
Arachis hypogaea L. 'NC 10', 494, 771
Arachis hypogaea L. 'NC 10C', 450, 594
Arachis hypogaea L. 'NC -V-11', 450, 771
Artemisia vulgaris L., 176
ARTVU, 176
Asclepias syriaca L., 425
ASCSY, 425
Atrazine, 104, 127, 244, 324, 404, 425, 471, 484, 520, 599, 821
AVEFA, 77, 227, 612
Avena fatua L., 227, 612
Avena sativa L., 94, 144, 334
Avena sativa L. 'Montezuma', 399
Azetogarashi, 680

Bahiagrass, 132, 378, 571
Banded herbicides, 244
Barley, 227, 777
Barnyardgrass, 48, 65, 209, 283, 296, 390, 504, 536, 542, 586, 821
Bay, 144
BAYFOE 5043, 713
Belle, 144
Benefin, 706
Benefits, 607
Bensulide, 829
Bentazon, 276, 320, 334, 450, 484, 586, 599, 771, 821
Benzoic acid derivative, 814
Bermudagrass, 1, 127, 169, 425
Beta vulgaris (L), 25
Bidens alba, 576
Bidens leucantha, 576
Bidens pilosa L., 576
BIDPI, 576
Bioherbicide, 675
Biological control, 59
Biological rhythms, 466
Biological weed control, 675
Biology, 257
Biotype, 296
Birdsrape mustard, 239
2-[[[[[4,6-bis(difluoromethoxy)-2-pyrimidinyl]amino]carbonyl]amino]sulfonyl] benzoic acid, 264, 461, 525, 697
Black mustard, 239
Black nightshade, 151
Blackgrass, 607
Blackhull ecotypes, 12
Botryosphaeria ribis, 59
Brachiaria platyphylla, 276
Brachiaria platyphylla (Griseb.) Nash, 48, 324, 411, 821
BRAPP, 48, 276, 324, 411, 821
Brassica kaber (DC.) L.C. Wheeler, 239
Brassica napus L., 239
Brassica napus L. ssp. *napus,* 554
Brassica nigra (L.) W.J.D. Koch, 239
Brassica oleracea L. var. *botrytris,* 244
Brassica oleracea L. var. *capitata* L., 303
Brassica oleracea L. var. *italica,* 726
Brassica oleracea var. *acephala,* 726
Brassica rapa L., 239
Brassica rapa L. Em. Metzg., 777
Break-even analysis, 30
Broadcast, 374
Broadleaf signalgrass, 48, 324, 411, 821
BROCA, 439
Broccoli, 244, 726
Bromoxynil, 411, 515, 536, 599, 691, 821
Bromoxynil-resistant cotton, 411
Bromus biebersteinii Roem and Schult, 548
Bromus carinatus H.&A., 439
Bromus tectorum L., 120, 461, 632
Broomrape biocontrol, 457
BROTE, 77, 120, 461, 632
Brownhull ecotypes, 12
BRSNI, 239
BRSRA, 239
Brush hoe, 244
Burcucumber, 520
Butylate, 494

14C, 515
14C–2,4-D, 290
14C–2,4-DB, 290
Cabbage, 303
CADDR, 581
Calcifuge, 421
California brome, 439
Canada thistle, 54, 83, 425
Canola, 239, 554, 777

CAPBP, 239, 554
Capsella bursa-pastoris (L.) Medic., 239
Capsella bursa-pastoris (L.) Medicus, 554
Capsicum annuum L., 303
Carbaryl, 65, 296
Carbofuran
Cardaria draba (L.) Desv., 581
Carrot, 599
CASOB, 6, 139, 290, 324, 361, 411, 466, 484, 791
CGA-152005, 264, 520, 697
CGA-248757, 783
CGA-277476, 48, 271, 354, 783
CHEAL, 71, 104, 276, 283, 308, 324, 354, 394, 411, 450, 471, 504, 542, 594, 691, 713, 741, 771, 783, 807
Chemical fallow, 731
Chemical mowing, 378
Chenopodium album, 691, 807
Chenopodium album L., 71, 104, 276, 283, 308, 324, 354, 394, 411, 450, 471, 504, 542, 594, 691, 713, 741, 771, 783
Chlorimuron, 54, 100, 165, 233, 271, 276, 354, 361, 425, 489, 510, 520, 586, 697, 759, 791
Chloroplast-encoded resistance, 747
(±)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoic acid, 19, 43
(±)-2-[4-[(6-chloro-2-quinoxalinyl)oxy]phenoxy]propanoic acid, 347
2-chloro-1-(3-ethyoxy-4-nitrophenoxy)-4-(trifluoromethyl)benzene, 439, 576, 726
[2-chloro-4-fluoro-5-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2*H*-isoindol-2-yl)phenoxy] acetic acid, 520, 783
[[2-chloro-4-fluoro-5-[(tetrahydro-3-oxo-1*H*,3*H*-[1,3,4]thiadiazolo[3,4-a]pyridazin-1-ylidene)amino]phenyl]thio]acetate, 783
3-chloro-2-[[(5-ethoxy-7-fluoro[1,2,4]triazolo[1,5-*c*]pyrimidin-2yl)sulfonyl]amino]benzoic acid, 276, 354, 425, 489, 825
5-chloro-3-(1,1-dimethylethyl)-6-methyl-2,4-(1*H*,3*H*)-pyrimidinedione, 127
2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)thio]benzoic acid, 6, 54, 308, 411, 697
(4-chloro-2-methylphenoxy)acetic acid, 43
4-chloro-5-(methylamino)-2-(3-(trifluoromethyl)phenyl)-3(2*H*)-pyridazinone, 308, 561, 594
2-[[4-chloro-6-(ethylamino)-1,3,5-triazin-2-yl]amino]-2-methylpropanenitrile, 308, 411, 599
2-[[[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl] benzoic acid, 100, 165, 233, 271, 276, 354, 425, 489, 510, 697, 759, 791
6-chloro-*N*-ethyl-*N*′-(1-methylethyl)-1,3,5-triazine-2,4,diamine, 104, 127, 244, 324, 404, 425, 471, 484, 520, 599, 821
6-chloro-*N*-*N*′-diethyl-1,3,5-triazine-2,4-diamine, 747, 799
2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-(2-methoxy-1-methylethyl)acetamide, 104, 244, 324, 341, 404, 425, 439, 471, 594, 799
2-chloro-*N*-(2,6-diethylphenyl)-*N*-(methoxymethyl)acetamide, 341
2-chloro-*N*-(ethoxymethyl)-*N*-(2-ethyl-6-methylphenyl) acetamide, 341, 404, 713
2-chloro-*N*-(2,4-dimethyl-3-thienyl)-*N*-(2-methoxy-1-methylethyl)acetamide, 271, 341
2-chloro-*N*-[[4-methoxy-6-methyl-1,3,5-triazin-2yl)amino]carbonyl] benzenesulfonamide, 54, 753
2-chloro-*N*-[(1-methyl-2-methoxy)ethyl]-*N*-(2,4-dimethyl-thien-3-yl)-acetamide, 71, 283
2-[(chlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone, 390, 425
(±)-2-[4-[(6-chloro-2-quinoxalinyl)oxy]phenoxy]propanoic acid, 30, 48, 515
5-[2-chloro-4-(trifluoromethyl)phenoxy]-*N*-(methylsulfonyl)-2-nitrobenzamide, 244
5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoic acid, 165, 276, 450, 586, 594, 771
Chlorsulfuron, 54, 753
CIRAR, 54, 83, 425
Circadian, 466
Cirsium arvense (L.) Scop., 54, 83, 425
Citrus, 576
Citrus sp., 576
Clethodim, 30, 48, 233, 525, 536
Clomazone, 390, 425
Clopyralid, 25, 83, 303, 753
Cloransulam, 425, 489, 791, 825
Cloransulam-methyl, 276, 354
Cocklebur biotype, 257
Cogongrass, 201
Collard, 726
Common cocklebur, 6, 100, 233, 257, 271, 471, 478, 632
Common falsepimpernel, 680
Common groundsel, 554
Common lambsquarters, 71, 104, 276, 283, 308, 324, 354, 394, 411, 450, 471, 504, 542,594, 691, 713, 741, 771, 783
Common milkweed, 425
Common pokeweed, 425
Common purselane, 599
Common ragweed, 104, 233, 276, 283, 308, 320, 324, 471, 542, 691, 713, 783
Common sunflower, 489, 510, 632
Common waterhemp, 233, 471, 478, 632, 741
Competition, 132
CONAR, 731
Constant row spacing, 183
Container plant production, 157
Container production, 799
Conventional tillage, 404
Convolvulus arvensis L., 731
Corn, 37, 54, 283, 303, 314, 324, 367, 404, 425, 471, 494, 504, 510, 520, 691, 713, 783,807, 814
Corn yield, 324
Cost, 30
Cotton, 6, 308, 411, 494, 561
Cotton yield, 411
Cover crops, 201
Creeping bentgrass, 216, 829
Crop competition, 636
Crop drydown, 777
Crop grading, 239
Crop injury, 548
Crop oil concentrate, 536
Crop residue, 314
Crop rotation, 120, 347, 548, 636, 643
Crop tolerance, 303, 530
Cross-resistance, 599
Cucumber, 303
Cucumis sativus L., 303
Cultivar, 303
Cultivation, 104, 324, 399, 636
Cultural control, 374
Cultural weed control, 347
Cyamopsis tetragonoloba (L.) Taub., 67
Cyanazine, 308, 411, 599
Cyclohexanedione herbicide, 536
3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4 (1*H*, 3*H*)-dione, 571, 599
2-cyclopropyl-3-(2-mesyl-4-trifluoromethylphenyl)-3-oxopropanenitrile, 814
4-(cyclopropyl-α-hydroxy-methylene)-3,5-dioxo-cyclohexanecarboxylicacid ethyl ester, 132, 378, 829
5-cyclopropyl-isoxazol-4-yl-2-mesyl-4-trifluoromethylphenyl ketone, 221, 713, 814
5-cyclopropyl-4-(2-methanesulphonyl-4-trifluoromethylbenzoyl)isoxazole, 404, 471, 504
CYNDA, 425
Cynodon dactylon (L.) Pers., 1, 127, 169, 425
Cynodon dactylon (L.) Pers. × C *transvaalensis* Burtt-Davey, 157
Cynodon transvaalensis Burtt-Davey × C. *dactylon* L. Pers., 132
CYNDA, 1, 127, 132, 169
Cyperus esculentus L., 276, 594
Cyperus rotundus L., 1, 112, 132, 361, 494
CYPES, 276, 594
CYPRO, 1, 112, 132, 361, 494

2,4-D, 43, 144, 290, 731, 821
2,4-DB, 139, 290, 594, 771
D-glucitol, 747
Dactylis glomerata L., 581
Dandelion, 675
Dane, 144
DATST, 411
Datura stramonium L., 411
DAUCA, 599
Daucus carota L., 599
DCPA, 216
DEDTO, 6, 139
Deep band, 374
Deep-banded fertilizer, 183
Degradation, 341, 561

Delayed seeding, 643
Deleterious rhizobacteria, 835
Descurainia sophia (L.) Webb. *ex* Prantl, 239
Desmedipham, 25
Desmodium tortuosum (SW.) DC., 6
DESSO, 239
3,5-dibromo-4-hydroxybenzonitrile, 411, 515, 536, 599, 691, 821
Dicamba, 264, 283, 731, 753
Dichloride salt of 1,1′-dimethyl-4,4′-bipyridinium ion, 139
Dichlormid, 713
2,2-dichloro-*N*-*N*-di-2-propenylacetamide, 713
(2,4-dichlorophenoxy)acetic acid, 43, 290, 731, 821
2-[4-(2,4-dichlorophenoxy)phenoxy] propanoic acid, 169
3-[2,4-dichloro-5-(1-methylethoxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2-(3*H*)-one, 385, 706
3,6-dichloro-2-methoxybenzoic acid, 264, 283, 731, 753
3,6-dichloro-2-pyridinecarboxylic acid, 25, 83, 303, 753
3,7-dichloro-8-quinolinecarboxylic acid, 65, 253, 296, 390, 548, 731
4-(2,4-dichlorophenoxy)butonic acid, 290, 594
Diclofop, 169
Diclofop-methyl, 88
Diclosulam, 450, 771, 791
Differential tolerance, 685
DIGDE, 172
DIGIS, 216
Digitaria ciliaris (Retz.) Koel., 385
Digitaria decumbens, 172
Digitaria ischaemum, 216
Digitaria sanguinalis L., 484
Digitaria sanguinalis L. Scop., 132, 253, 324, 411, 421, 504, 542
DIGSA, 132, 253, 324, 411, 421, 484, 504, 542
DIGSP, 385
2-3-dihydro-2,2-dimethyl-7-benzofuranyl-methyl-carbamate, 484
2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid, 54, 271, 320, 354, 394, 489, 494, 510, 581, 697, 759, 783
2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid, 54, 77, 489
2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-quinolinecarboxylic acid, 54, 100, 165, 233, 276, 361, 378, 425, 697, 759, 791
(±)-2[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-4(and 5)-methlybenzoic acid (3:2), 227
(±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-5-methyl-3-pyridinecarboxylic acid, 54, 59, 378, 450, 484, 494, 771
(±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid, 54, 201
1,2-dihydro-3,6-pyridazinedione, 378
Diketonitrile, 814
Dimethenamid, 341
2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-*N*,*N*-dimethyl-3-pyridinecarboxamide, 484, 691, 737, 759, 840
Dimethyl amine salt of 4-(2,4-dichlorophenoxy)butanoic acid, 139
1,1′-dimethyl-4,4′-bipyridinium ion, 19, 399, 450, 765, 771
2-[[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfony]benzoic acid, 127, 271, 354, 783
2[[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-, 3-oxetanyl-ester, 48
2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-*N*,*N*-dimethyl-3-pyridinecarboxamide, 37, 54, 264, 324, 367, 525
Dinitroaniline, 157, 626
2,4-dinitro-*N(3)*,*N(3)*-dipropyl-6-(trifluoromethyl)-1,3-benzenediamine, 385, 706
2,6-dinitro-*N*,*N′*-dipropyl-4-(trifluoromethyl)benzenamine, 157, 271, 276, 308, 439, 791
4-(dipropylamino)-3,5-dinitrobenzenesulfonamide, 157, 385, 706
Disease occurrence, 139
Disease–weed interactions, 139
Disodium methanearsonate, 6
Dissipation, 561
Dithiopyr, 216, 253, 385, 706
Diuron, 599, 747
2,4-D isooctylester, 88
Dose response, 542
Downy brome, 120, 461, 632
Dry pea, 753
Dryland cropping systems, 731
DSMA, 6
Durum wheat, 675
Dwarf burning bush, 685

Early preplant, 713
Eastern black nightshade, 151
ECHCG, 48, 65, 209, 296, 390, 504, 536, 542, 586, 821
ECHCO, 209
ECHCR, 283
ECHHI, 209
Echinochloa colonum (L.) Link, 209
Echinochloa crus-galli (L.) Beauv., 48, 65, 209, 283, 296, 390, 504, 536, 542, 586, 821
Echinochloa hipidula (Retz.) Nees ex Royle., 209
Echinochloa oryzicola (Vasing.) Vasing., 209
Echinochloa oryzoides (Ard.) Fritsch, 209
ECHOL, 209
ECHOR, 209
ECLAL, 450, 771
Eclipta, 450, 771
Eclipta prostrata L., 450, 771
Economic analysis, 276
Economic returns, 478
Economics, 607
EDTA, 747
(*E*,*E*)-(±)-2-[1-[[(3-chloro-2-propenyl)oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one, 30, 48, 233, 525, 536
Efficacy improvement, 675
ELEIN, 132, 169, 308, 324, 594
Eleusine indica L. Gaertn., 132, 169, 308, 324, 594
Elymus junceus, Fish., 83
Elytrigia repens (L.) Beauv., 37, 54
Ensiler, 144
Entireleaf morningglory, 276, 450, 586, 594, 771
EPHES, 835
EPHMA, 290
EPTC, 71
Ethalfluralin, 450, 771
Ethofumesate, 25, 829
(±)-2-ethoxy-1-methyl-2-oxoethyl-5-[2-chloro-4-(trifluoromethyl)phenoxyl-2-nitrobenzoate, 594, 825
(+)-ethyl 2-[4-[(6-chloro-2-benzoxazoly)-oxy]phenoxy]propanoate, 88
Ethyl 2-[[[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl] benzoate, 54, 361, 520, 586
2-ethylhexyl-(2,4-dichlorophenoxy)acetate, 88
Ethyl [3-[[(phenylamino) carbonyl]oxy]-phenyl]carbamate, 25
1-(2-ethylsulfonylimidazo[1,2-*a*]pyridin-3-ylsulfonyl)-3-(4,6-dimethoxypyrimidin-2-yl)urea, 88
(±)-2-ethoxy-2,3-dihydro-3,3-dimethyl-5-benzofuranyl methanesulfonate, 25, 829
2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one, 25, 30, 94, 334, 347, 378, 821
Euonymus alatus (Thunb) Sieb. 'Compacta', 685
Euonymus fortunei (Turcz.) Hand. Mazz. 'Colorata', 685
Euphorbia esula L., 835
Euphorbia maculata L., 290
Evolution, 647
EXP 31130A, 404

Faba bean, 457, 548
Fall panicum, 104, 324, 542
Fenoxaprop, 19, 43
Fenoxaprop/2,4-D/MCPA, 88
Fenoxaprop-*p*-ethyl, 88
Feral rye, 120
Fertilizer placement, 183
Festuca arundinacea Screb., 83
Fiber quality, 411
Field bindweed, 731
Field pennycress, 239
Flax, 347, 777

Flex-tine cultivator, 244
Flixweed, 239
Florida beggarweed, 6
Fluazifop, 378
Fluazifop-P, 19, 30, 48, 525
Flumetsulam, 276, 303, 425, 791
Flumiclorac, 520, 783
Flumioxazin, 233, 594
Fluometuron, 308, 411, 561
2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2*H*-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1*H*-isoindole-1,3(2*H*)-dione, 233, 594
4-fluoro-*N*-isopropyl-2-(5-trifluoromethyl-1,3,4-thiadiazol-2-yloxy, 713
Flurprimidol, 132
Foliar symptoms, 753
Fomesafen, 244, 290
Formulation, 675
Foxtail barley, 347

Gem, 144
Genetically engineered crop, 394
Genetics, 100
Germinability, 576
Giant foxtail, 354, 394, 471, 478, 542, 691, 713, 737, 741, 840
Giant ragweed, 825
Global positioning system, 643
Glucosinolate, 239
Glufosinate, 19, 104, 264, 324, 542, 691, 765, 777, 807
Glycine max L. Hartz 5088 Roundup Ready and Northrup King S-59–60, 586
Glycine max (L.) Merr, 30, 165, 264, 276, 354, 394, 425, 510, 530, 741, 791, 825
Glycine max (L.) Merr. 'Conrad', 783
Glycine max (L.) Merr. 'Delta and Pine Land 3588', 271
Glycine max (L.) Merr. 'Hartz 4994', 48
Glycine max (L.) Merr. 'Pioneer 9362', 233
Glycine max (L.) Merr. 'Pioneer 9363RR', 478
Glycine max (L.) Merr. 'Pioneer 9592', 48
GLYMA, 783
Glyphosate, 19, 30, 43, 83, 112, 127, 201, 233, 264, 283, 308, 347, 354, 361, 378, 394, 411, 466, 478, 542, 586, 731, 765, 777, 791, 807, 840
Glyphosate-resistant cotton, 411
Goatgrass, 374
Goldhull ecotypes, 12
Goosegrass, 132, 169, 308, 324, 594
Gossypium hirsutum L., 6, 561
Gossypium hirsutum L. 'Deltapine 51', 411
Gossypium hirsutum L. 'Paymaster 1220RR', 411
Gossypium hirsutum L. 'Paymaster 1330RR', 308
Gossypium hirsutum L. 'Stoneville BXN 47', 411
Gossypium hirsutum L. 'Suregrow 125', 494
GR(50), 542, 599
Grain grade, 88
Grass weed control, 571
Green foxtail, 43, 71, 404, 626
Green pigweed, 283
Growth response, 6
Guar, 675

Hairy beggarticks, 576
Hairy nightshade, 71, 151
Halosulfuron, 494, 520, 697
Hand weeding, 643
HELAN, 489, 510, 632
Helianthus annuus L., 120, 314, 489, 510, 632
Hemp dogbane, 425
Hemp sesbania, 271, 466
Herbaceous cover crops, 201
Herbicide, 59, 561
Herbicide additive, 783
Herbicide absorption, 515, 685
Herbicide application timing, 43, 520
Herbicide carryover, 303, 494
Herbicide combinations, 104
Herbicide efficacy, 165
Herbicide group rotation, 655
Herbicide injury, 450, 771
Herbicide interaction, 320, 515
Herbicide metabolism, 515
Herbicide phytotoxicity, 530
Herbicide placement, 461
Herbicide rate, 385
Herbicide reduction, 244
Herbicide resistance, 65, 296, 489, 510, 599, 632, 653, 697, 759
Herbicide-resistant corn, 54
Herbicide-resistant crop(s), 308, 324, 354, 394, 411
Herbicide-resistant weeds, 607
Herbicide sensitivity, 151
Herbicide tolerance, 19, 71, 144, 151, 530, 726, 759
Herbicide tolerant crop, 77
Herbicide-tolerant crops, 494, 807
Herbicide translocation, 515
Herbicide uptake, 685
Hexazinone, 571, 599
Hoary cress, 581
HOE 30374, 296
Hordeum jubatum L., 347
Hordeum vulgare L., 227, 777
Hordeum vulgare L. 'Steptoe', 88
Horicon, 144
HORJU, 347
Horsenettle, 425
Hybrid bermudagrass, 157
Hybridization, 12
Hybrid wheatgrass, 83
Hypocotyl length reduction, 530

IAQTA, 290
Imazamethabenz, 227
Imazamox, 54, 77, 361, 489
Imazapic, 378, 450, 494, 771
Imazapyr, 54, 59, 201
Imazaquin, 54, 100, 165, 233, 271, 276, 290, 361, 378, 425, 697, 759, 791
Imazethapyr, 19, 54, 320, 354, 394, 489, 494, 510, 581, 697, 759, 783, 825
IMI wheat, 77
Imidazolinone, 581
Imidazolinone resistance, 697
IMPCY, 201
Imperata cylindrica (L.) Beauv., 201
Injury, 37
Integrated pest management, 421
Integrated weed control, 120
Integrated weed management, 367, 421, 636
Interactions, 361
Intermediate wheatgrass, 83
IPOHE, 233, 308, 450, 484, 594, 691, 771
IPOHG, 276, 450, 484, 586, 594, 771
IPOLA, 233, 271, 276, 324, 411, 450, 466, 484, 586, 594, 771, 791
Ipomoea hederacea, 484, 691
Ipomoea hederacea var. *integriuscula*, 484
Ipomoea hederacea var. *integriuscula* Gray, 586, 594, 771
Ipomoea hederacea (L.) Jacq., 233, 308, 450, 594, 691, 771
Ipomoea hederacea var. *integriuscula* Gray, 276, 450
Ipomoea lacunosa L., 233, 276, 324, 411, 450, 466, 484, 586, 594, 771, 791
Ipomoea purpurea, 484
Ipomoea purpurea (L.) Roth, 324
Iron, 829
Irrigation, 799
Isooctyl(4-chloro-2-methyl-phenoxy)acetate, 88
Isopropylamine salt of *N*-(phosphonomethyl) glycine, 361, 765
Isoxaben, 157, 685
Isoxaflutole, 221, 471, 713, 814
Isozymes, 209
Ivyleaf morningglory, 233, 308, 450, 594, 691, 771

Jacquemontia tamnifolia (L.) Griseb., 290
Jimsonweed, 411
Johnsongrass, 30, 48, 367, 425, 484, 525
Jointed goatgrass, 77, 120, 183
Junglerice, 209
Juniperus horizontalis 'Plumosa compacta', 799

KCHSC, 404, 632
Kentucky bluegrass, 253, 461
Kochia, 404, 632
Kochia scoparia (L.) Schrad., 404, 632

Label, 653
Lactofen, 594, 825
Large crabgrass, 132, 253, 324, 411, 421, 484, 504, 542
Lavender broomrape, 457
Leafy spurge, 835
Lens culinaris L., 777
Lentil, 777
Lespedeza cuneata (Dumont) G. Don, 290
Liberty Link corn, 324
LIDPY, 680
LIDDU, 680
Light requirement, 814
Linaria vulgaris Mill., 777
Lindernia dubia (L.) Pennell, 680

Lindernia dubia var. *dubia*, 680
Lindernia dubia var. *major*, 680
Lindernia micrantha D. Don, 680
Lindernia procumbens (Krock.) Philcox, 680
Linolenic acid, 239
Linum usitatissimum L., 777
Linum usitatissimum L. 'Flanders', 347
Linuron, 425, 599
LINVU, 777
Lolium perenne L., 439
Lolium perenne L. 'Fiesta II', 253
LOLMU, 77
LOLPE, 253, 439
Low falsepimpernel, 680
Lycopersicon esculentum Mill., 303, 457

Magnesium, 829
Maize (corn), 201
Maleic hydrazide, 378
Malvern, 765
Management, 653
MCPA, 43, 144
MCPA isooctylester, 88
Meadow bromegrass, 548
Mechanical weed control, 244
Mechanical weeding, 636
Medicago sativa L., 548, 581
Medicago sativa L. 'Lahontan', 399
Medicago sativa L. 'WL318', 300
Melaleuca, 59
Melaleuca quinquenervia (Cav.) Blake, 59
2-mesyl-4-trifluoromethylphenyl benzoic acid, 814
methyl 5-[[(4,6-dimethoxy-2-pyrimidinyl)-amino]carbonylaminosulfonyl]-3-chloro-1-methyl-1-*H*-pyrazole-4-carboxylate, 494
1-(4-methoxy-6-methyl-triazin-2-yl)-3-[2-(3,3,3-trifluoropropyl)-phenylslfonyl]-urea, 264, 520, 697
3-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylic acid, 144, 264, 489, 697, 753
2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl] amino]sulfonyl] benzoic acid, 144, 264,753
Metolachlor, 71, 341
Methyl ester, 825
Methyl 2-(diflruormethyl)-5-(4,5-dihydro-2-thiazolyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-3-pyridinecarboxylate, 576
Methyl 2-[[[[[4,6-bis(difluoromethoxy)-2-pyrimidinyl]amino]carbonyl]-amino]sulfonyl] benzoate, 54, 520
Methyl 2-[4-(2,4-dichlorophenoxy)phenoxy]propanoate, 88
Methyl 3-chloro-5-(4,6-dimethoxypyrimidin-2-ylcarbamoylsufamoyl)-1-methylpyrazole-4-carboxylate, 697
Methyl 5-[(4,6-dimethoxy-2-pyrimidinyl)-amino)carbonylaminosulfonyl]-3-chloro-1-methyl-1H-pyrazole-4-carboxylate, 1
Methyl 2-[[[[[4-((dimethylamino)-6-(2,2,2-trifluoroethoxy)-1,3,5 triazin-2-yl]amino]-carbonyl]amino]sulfonyl]-3-methylbenzoate, 25, 54
Methyl 5-[[(4,6-dimethoxy-2-pyrimidinyl)-amino]carbonylaminosulfonyl]-3-chloro-1-methyl-1-*H*-pyrazole-4-carboxylate, 361, 520
α-(1-methylethyl)-α-[4-trifluoro-methoxy)phenyl]-5-primidinemethanol, 132
Methyl 2-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]-sulfonyl] benzoate, 54
Methyl 2-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]amino]-sulfonyl]benzoate, 54
Methyl 3-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-amino]carbonyl]amino]-sulfonyl]-2-thiophenecarboxyl, 680
Methylated seed oil, 536, 737
3-(1-methylethyl)-(1*H*)-2,1,3-benzothiadiazin-4(3*H*)-one 2,2-dioxide, 276, 320, 334, 450, 484, 586, 599, 771, 821
3-[(methoxycarbonyl)amino]phenyl (3-methyl-phenyl)carbamate, 25
Metolachlor, 104, 244, 324, 404, 425, 439, 471, 594, 799
Metribuzin, 71, 127, 169, 233, 271, 276, 354, 425, 586, 599, 713, 791
Metsulfuron, 54, 753
MLAQU, 59
Model validation, 561
Modified seed oil, 737
Molinate, 19, 65
MON 12000, 361
MON 12037, 1
MON 37500, 88
Monosodium methanearsonate, 6
Monosodium salt of methylarsonic acid, 169, 308, 411
Morphology, 209
Mowing, 83
MSMA, 6, 169, 308, 411
Mucuna pruriens (L.) DC. var. *utilis* (Wright) Burck, 201
Mugwort, 176
Multiple-group resistance, 612
Multiple-seeding cocklebur, 257
Mycoherbicide, 59, 675

1-naphthyl *N*-methylcarbamate, 65, 296
N-butyl-*N*-ethyl-2,6-dinitro-4-(trifluoromethyl) benzenamine, 706
N-(2-carboxymethyl-6-chlorophenyl)-5-ethoxy-7-fluoro[1,2,4]triazolo-[1,5-c]-pyrimidine-2-sulfonamide, 791
N-[2,4-dichloro-5[4-difluoromethyl)4,5-dihydro-3-methyl-5-oxo-1*H*-1,2,4-triazol-1-yl]phenyl]methanesulfonamide, 233, 354, 425, 530
N-(2,6-dichlorophenyl)-5-ethoxy-7-fluoro[1,2,4]triazolo-[1,5c]pyrimidine-2-sulfonamide, 450, 771, 791
N' -(3,4-dichlorophenyl)-*N,N*-dimethylurea, 599, 747
N-[2,6-dichlorophenyl]-5-ethoxy-7-fluoro[1,2,4]triazolo[1,5*c*]pyrimidine-2-sulfonamide, 791
N-(2,6-difluorophenyl)-5-methyl[1,2,4]-triazolo[1,5-α]pyrimidine-2-sulfonamide, 276, 303, 425
N'-(3,4-dichlorophenyl)-*N*-methoxy-*N*-methylurea, 425, 599
N-(3,4-dichlorophenyl)propanamide, 65, 296
N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(ethylsulfonyl)-2-pyridinesulfonamide, 37, 71, 151, 264, 697
Negative cross-resistance, 599
Net returns, 139, 324
N-ethyl-*N'*-(1-methylethyl)-6-(methylthio)-1,3,5-triazine-2,4-diamine, 324
N-ethyl-*N*-(2-methyl-2-propenyl)-2,6-dinotro-4-(trifluoromethyl)benzenamine, 450, 771
N-[3-(1-ethyl-1-methylpropyl)-5-isoxazolyl]-2,6-dimethoxybenzamide, 157, 685
N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine, 65, 127, 271, 296, 390, 411,
425, 439, 586, 706, 791
New zoysiagrass cultivars, 706
Nicosulfuron, 37, 54, 264, 283, 324, 367, 484, 525, 691, 737, 759, 840
Nightshade weeds, 151
N,N'-bis(1-methylethyl)-6-(methylthio)-1,3,5-triazine-2,4-diamine, 599
N,N-dimethyl-*N'*-[3-(trifluoromethyl)phenyl]urea, 308, 411, 561
N,N'-1,2 ethanediylbis[*N*-(carboxymethyl)-glycine], 747
N,N'-1,2 ethanediylbis[*N*-(carboxymethyl)-glycine] trisodium salt, 747
Nonburned grass seed production, 439
Nonionic surfactant, 536, 737, 840
Nonylphenol ethoxylate, 737
No-till, 404
No-tillage, 713
Norflurazon, 308, 561, 594
North Carolina, 494
N-(phosphonomethyl)glycine, 30, 43, 112, 127, 201, 233, 264, 283, 308, 347, 354, 378, 394, 411, 466, 478, 542, 586, 731, 777, 791, 807, 840
Nutsedge regrowth, 1

Oat, 94, 144, 334, 399
Ogle, 144
Olea europea L., 457
Olive, 457
Olive cake, 457
O,O-bis(1-methylethyl)*S*-[2-[(phenylsulfonyl)amino]ethyl]phosphorodithioate, 829
ORACR, 457
ORALA, 457
Orchardgrass, 581
Organic production, 139
Organophosphate insecticide, 484
Organosilicone surfactant, 112, 536
Ornamentals, 685
Orobanche crenata Forsk., 457
Orobanche lavandulacea Reichenb., 457

ORYSA, 12, 19
Oryzalin, 157
Oryza sativa L., 12, 19, 209
Oryza sativa L. 'Kaybonnet', 65, 296
Oryza sativa L. 'Lemont', 65, 390
Oryzalin, 385, 706
Oxadiazon, 385, 706
3-oxetanyl ester, 271, 354, 783
Oxyflurofen, 439, 576, 726

Paclobutrazol, 132
Paired-row, 183
Palmer amaranth, 165, 632
PANDI, 104, 324, 542
Panicum dichotomiflorum Michx., 104, 324, 542
Panicum miliaceum L., 120, 314
Panicum miliaceum L. ssp. *ruderale* (Kitagawa) Tzevelev., 104
PANMI, 104
Paraquat, 19, 139, 399, 450, 765, 771
Parasitic weeds, 457
Particle impregnation, 385
PASNO, 132, 172, 378, 571
Paspalum notatum, 172
Paspalum notatum Fluegge, 132, 378, 571
Pasture weeds, 571
Pea, 303, 457, 554, 777
Peanut, 139, 450, 494, 594, 771
Pendimethalin, 65, 71, 127, 271, 296, 390, 411, 425, 439, 586, 706, 791
Pennsylvania smartweed, 233, 471
Pepper, 303
Percent dockage, 88
Perennial ryegrass, 253, 439
Persistence, 548
Pesticide interaction, 484, 536
Pesticide residue, 799
Petroleum crop oil concentrate, 737
Petroleum oil, 334
Phaseolus vulgaris L., 244
Phenmedipham, 25
Phenolics, 176
Phenology, 227
PHBPU, 324, 484
Phoma herbarum Westend., 675
Photosynthesis, 829
Phytolacca americana L., 425
PHYAM, 425
Picloram, 731
Piperophos, 296
Pisum sativum L., 303, 457, 554, 753
Pisum sativum var. *arvense* L., 777
Pitted morningglory, 233, 276, 324, 411, 450, 466, 586, 594, 771, 791
Plant mapping, 6
Poa annua L., 554, 747, 829
Poa pratensis L., 461
Poa pratensis L. 'America', 253
Poa trivialis L., 829
POAAN, 554, 747
POAPR, 253
POLCO, 283
POLPY, 233, 471
Polygonum convolvulus L., 283
Polygonum pensylvanicum L., 233, 471
POROL, 599
Porter, 144
Portulaca oleracea L., 599
Postemergence herbicides, 691
Postharvest residue management, 439
Potato, 71, 303, 548, 675
Prairie, 144
Preemergence, 713
Preemergence herbicides, 216, 425, 685
Preventive strategies, 314
Prickly sida, 276, 324, 411, 450, 466, 594, 771
Primisulfuron, 54, 264, 461, 520, 525, 697
Prodiamine, 385, 706
Profits, 607
Prometryn, 599
Propanil, 65, 296
Proso millet, 120, 314
*psb*A gene, 747
Pseudomonas fluorescens [Trevisan, (Migula)], 835
Puncturevine, 404
Purple nutsedge, 1, 112, 132, 361, 494
Pyrithiobac, 6, 54, 308, 361, 411, 697

Quackgrass, 37, 54
Quinclorac, 65, 253, 296, 390, 548, 731
Quizalofop, 347
Quizalofop-P, 19, 30, 48, 515, 840

Rapeseed, 239
Rapeseed erucic acid, 239
Raphanus raphanistrum L., 144
RAPRA, 144
Red clover, 176
Red rice, 12, 19
Redroot pigweed, 71, 283, 404, 484, 713, 783
Reduced rates, 525
Regrowth control, 59
Residual control, 520
Resistance management labeling, 655
Resistant weeds, 653
Rhizome, 37
Rice, 12, 65, 209, 296, 390
Right-of-ways, 378
Rimsulfuron, 37, 71, 151, 264, 283, 697
Root length reduction, 530
Roughstalk bluegrass, 829
Roundup Ready soybean, 394
Row spacing, 347
RPA 201772, 221, 283, 471, 504, 713, 814
(±)-(*R*R**)β-[(4-chlorophenyl)-methyl]-α-(1,1-dimethylethyl)-1*H*-1,2,4-triazole-1-ethanol, 132
(*R*)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoic acid, 19, 30, 48, 525
(R)-2-[4-[6-chloro-2-quinoxalinyl)oxy]phenoxy] propanoic acid, 840
Russian thistle, 632
Russian wildrye, 83

Salsola kali L., 632
SAN 535H, 283
SAN 582, 71, 271, 341
SAN 582H, 283
SAN 1269, 283
SASKA, 632
Scalloped broomrape, 457
Scarification, 576
SEBEX, 271, 466
S-[2-[(4-chlorophenyl)(1-methylethyl)jamino]-2-oxoethyl] *O,O*-dimethylphosphorodithioate, 296
S-[(4-chlorophenyl)methyl]diethylcarbamothioate, 19, 296, 390
S-[[(1,1-dimethylethyl)thio]methyl]*0,0*-diethyl phosphorodithioate, 484
S-ethyl bis(2-methylpropyl)carbamothioate, 494
Secale spp., 120
Seed bank, 632
Seed imbibition, 814
Seeding rate, 347
Selection, 647
SEM, 94
Semidominance, 100
Senecio vulgaris L., 554
Senna obtusifolia, 484
Senna obtusifolia L., 466
Senna obtusifolia (L.) Irwin & Barneby, 6, 290, 324, 361, 411, 484, 791
SENVU, 554
Sericea lespedeza, 290
Sesbania exaltata (Raf.) Rydb. *ex* A.W. Hill, 271, 466
Setaria faberi, 691, 807
Setaria faberi Herrm., 354, 394, 471, 542, 691, 713, 737, 741, 840
Setaria faberi L., 478
Setaria glauca (L.) Beauv., 43, 283, 515, 536, 741
Setaria letuscence (Weigel) F.T. Hubb., 504
Setaria spp., 741
Setaria viridis (L.) Beauv., 43, 71, 404, 626
SETFA, 354, 394, 471, 478, 542, 691, 713, 741, 807
SETGL, 283, 741
Sethoxydim, 19, 25, 30, 94, 334, 347, 378, 821
S-ethyl hexahydro-1*H*-azepine-1-carbothioate, 19, 65
SETLU, 43, 504, 515, 536, 741
SETVI, 43, 71, 404, 626
Shattercane, 632
Shepherd's-purse, 239, 554
Sicklepod, 6, 290, 324, 361, 411, 466, 484, 791
Sicyos angulatus L., 520
Sida spinosa L., 276, 324, 411, 450, 466, 594, 771
SIDSP, 276, 324, 411, 450, 466, 594, 771
Siduron, 216
Silicone surfactant, 737
Simazine, 747, 799
SINAR, 239
Site of uptake, 814
S-[2-(2-methyl-1-peperidinyl)-2-oxoethyl]*O,O*-dipropyl phosphorodithioate, 296
Small nettle, 554

Small scale farming, 201
Smallflower morningglory, 290
Smooth pigweed, 165, 276, 308, 324, 411, 471, 697, 759
Smutgrass, 571
Snap bean, 244
Sodium salt of 2-chloro-6-[(4,6-dimethoxy-2-pyrimidinyl)thio]benzoic acid, 361
Soil compaction, 741
Soil mixtures, 457
Soil moisture, 548
Soil nutrients, 176
Soil organic matter, 303
Soil pH, 303
Solanum carolinense L., 425
Solanum nigrum L., 151
Solanum ptycanthum Dun., 151
Solanum sarrachoides Sendter, 71, 151
Solanum tuberosum L., 303, 548, 675
Solanum tuberosum L. 'Russet Burbank', 71
Solanum viarum Dunal, 172, 571
SOLCA, 425
SOLNI, 151
SOLPT, 151
SOLSA, 71, 151
SOLTR, 71
SOLTU, 71
SOLVI, 172, 571
Sorbitol, 747
Sorghum bicolor (L.) Moench, 632
Sorghum halepense L., 484
Sorghum halepense (L.) Pers., 30, 48, 367, 425, 525
SORHA, 30, 48, 367, 425, 484, 525
SORVA, 632
Southern crabgrass, 385
Soybean, 30, 48, 165, 233, 264, 276, 354, 394, 425, 478, 510, 530, 586, 741, 783, 791, 825
Soybean injury, 233
Soybean yield, 233, 478
Spanish needles, 576
Spoke wheel, 374
Sporobolus indicus (L.) R. Br. var. *indicus*, 571
Spotted spurge, 290
Spray deposit, 94
Spray solution, 814
Spray volume, 227
S-propyl dipropylcarbamothioate, 494
SPZIN, 571
S,S-dimethyl 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-3,5-pyridinedicarbothioate, 216, 253, 385, 706
Stale seedbed, 791
Stimulation, 576
Strawhull ecotypes, 12
Stump treatment, 59
Sugarbeet, 25
Sugarcane (*Saccharum* spp. hybrids) SACCH, 127
Sulfentrazone, 233, 354, 425, 530
Sulfometuron, 127
Sulfonylurea, 144
Sulfonylurea herbicides, 697, 759
Sunflower, 120, 314
Surfactant(s), 94, 777, 783
Surveys, 612, 626, 655
Sustainable agriculture, 244
Sweet corn, 104, 221, 244
SYCAN, 520
Synergism, 65
SYSAL, 239
Sysimbrium altissimum L., 239
Systems approach, 314

Tall fescue, 83
Tall morningglory, 324
Taraxacum officinale Weber *in* Wiggers, 675
Target-site resistance, 697
TAROF, 675
Terbacil, 127
Terbufos, 484
Thermal weed control, 554
Thiazopyr, 576
Thifensulfuron, 144, 264, 489, 697, 753
Thifensulfuron-methyl, 680
Thiobencarb, 19, 296, 390
THLAR, 239
Thlaspi arvense L., 239
Tifway bermudagrass, 132
Tillage, 83, 127, 314, 643
Tomato, 303, 457
Total nonstructural carbohydrates, 835
Transgenic crops, 691
Transgenic sweet corn, 104
Translocation, 290
TRBTE, 404
Triazine resistance, 747
Tribenuron, 54, 144
Tribulus terrestris L., 404
Triclopyr, 172
[(3,5,6-trichloro-2-pyridinyl)oxy]acetic acid, 172
Trifolium pratense L. 'Kenland', 176
Trifluralin, 157, 271, 276, 308, 439, 791
(±)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoic acid, 378
Triflusulfuron, 25, 54
Trinexapac-ethyl, 132, 378, 829
tris-EDTA, 747
Triticum aestivum L., 120, 183, 374, 612, 731, 777
Triticum aestivum L. IMI-Fidel, 77
Triticum aestivum L. 'Katepwa', 347
Triticum aestivum L. 'Madsen', 88
Triticum aestivum L. 'Sharpe.', 43
Triticum aestivum L. 'TAM 107', 'Lamar', 314
Triticum durum Desf., 675
Tropical forage, 571
Tropical soda apple, 172, 571
Tuber viability, 1, 112
Tumble mustard, 239
Turfgrass, 157
Turfgrass injury, 706

Uptake, 112
Urtica urens L., 554
URTUR, 554
UV light, 334
UV radiation, 554

Vegetable oil, 94
Vegetated filter strips, 157
Velvetbean, 201
Velvetleaf, 104, 233, 354, 394, 471, 478, 504, 542, 691, 713, 741, 783, 814
Venturi nozzle, 765
Vernolate, 494
Vicia faba L., 457, 548
Viscosity, 94
Volunteer barley, 88

Weed control, 59, 71, 450, 525, 771
Weed growth, 132
Weed management, 271, 374
Weed resistance, 632
Weed shifts, 636
Western wheatgrass, 83
Wheat, 43, 183, 347, 612, 777
Wheat fallow, 731
Wild buckwheat, 283
Wild mustard, 239
Wild oat, 227, 612
Wild-proso millet, 104
Wild radish, 144
Winter wheat, 77, 88, 120, 314, 374, 731
Wintercreeper, 685

XANST, 6, 100, 233, 257, 271, 471, 478, 632
Xanthium strumarium L., 6, 100, 233, 257, 271, 471, 478, 632

Yellow foxtail, 43, 283, 504, 515, 536, 741
Yellow nutsedge, 276, 594
Yellow toadflax, 777
Yield, 144, 450, 753, 771

ZEAMA, 783
Zea mays, 807
Zea mays L., 54, 221, 283, 303, 314, 404, 425, 471, 510, 520, 713, 814
Zea mays L. 'Ciba 4575', 367
Zea mays L. 'DK 493GR', 807
Zea mays L. 'GH 0937', 104
Zea mays L. 'Holdens LH119 × LH216', 691
Zea mays L. 'Holdens LH195 × LH212', 691
Zea mays L. 'LH119 × LH216PAT1', 691
Zea mays L. 'LH195 × LH212PAT1', 691
Zea mays L. 'TZSR-W', 201
Zea mays L. 'Maximizer 21', 37
Zea mays L. 'Maximizer 747', 37, 504
Zea mays L. 'Muncy Chief. ESX569', 504
Zea mays L. 'Mycogen 9220', 367
Zea mays L. 'NK 7639 BT', 324
Zea mays L. 'Pioneer 3245', 494
Zea mays L. 'Pioneer 3343IR', 484, 494
Zea mays L. 'Pioneer 3751', 783
Zea mays L. var. *rugosa* Bonaf., 244
Zero tillage, 347
Zosia spp., 706
Zoysiagrass, 157, 706
Zoysia japonica Steud. 'Meyer', 157
ZOYTE, 706